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# **WATER SUPPLY OUTLOOK FOR UTAH**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES  
-- DIVISION OF WATER RIGHTS**

AS OF  
**FEB. 1, 1974**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,  
Alaska snow course.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





# **WATER SUPPLY OUTLOOK FOR UTAH**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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*Report prepared by*

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SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
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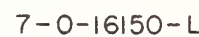
## Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

Approximate Date



 Above 160%  
 121 - 160%  
 80 - 120%  
 Not Forecast or Non-Irrigated

*Underlined Figures = April - Sept.*







# WATER SUPPLY OUTLOOK

as of  
February 1, 1974

\* \* \* \* \*  
\* Utah's 1974 Water Supply Outlook ranges from "near average" \*  
\* in Uintah Basin to "very good" on Weber and Ogden Rivers. \*  
\* Snow Cover ranges from 73% of average on the Uintah- \*  
\* Whiterocks Rivers to 160% of average on San Rafael \*  
\* tributaries. Reservoir storage is well above average. \*  
\* Streamflow Forecasts range from 86% of average on \*  
\* Whiterocks River to 198% of average on Lost Creek near \*  
\* Croydon. \*  
\* \* \* \* \*

## SNOW COVER

Snow Cover ranges from below average on the Uintah-Whiterocks Watersheds to 60% above average on the Beaver, Lower Sevier and San Rafael Watersheds. Most other watersheds range from 10 to 40% above the February 1 average for the 1958-72 fifteen year period.

## PRECIPITATION

Precipitation at mountain stations during January was two to three times average except for a band across the Provo River and Uintah Basin which was 85 to 117% of average. The October-January accumulated amounts ranged from 62% of average in Uintah Basin to 158% on the Beaver River.

## RESERVOIR STORAGE

Reservoir Storage is well above average. Sixteen of Utah's key reservoirs average 139% of the February 1 average. Sevier Basin reservoirs are 204% of average.

## STREAMFLOW FORECASTS

Streamflow forecasts range from 10-14% below the April-July average in Uintah Basin to as high as almost twice average on Lost Creek. Other streams are forecast between 20 to 60% above average except Southwestern Utah which is 10 to 15% above average and the Logan and Blacksmith Fork which are near average. Colorado River Forecasts range from 124% at Flaming Gorge to 132% at Cisco and 130% for Lake Powell Inflow. San Juan at Bluff is forecast 129% of the April-July average.

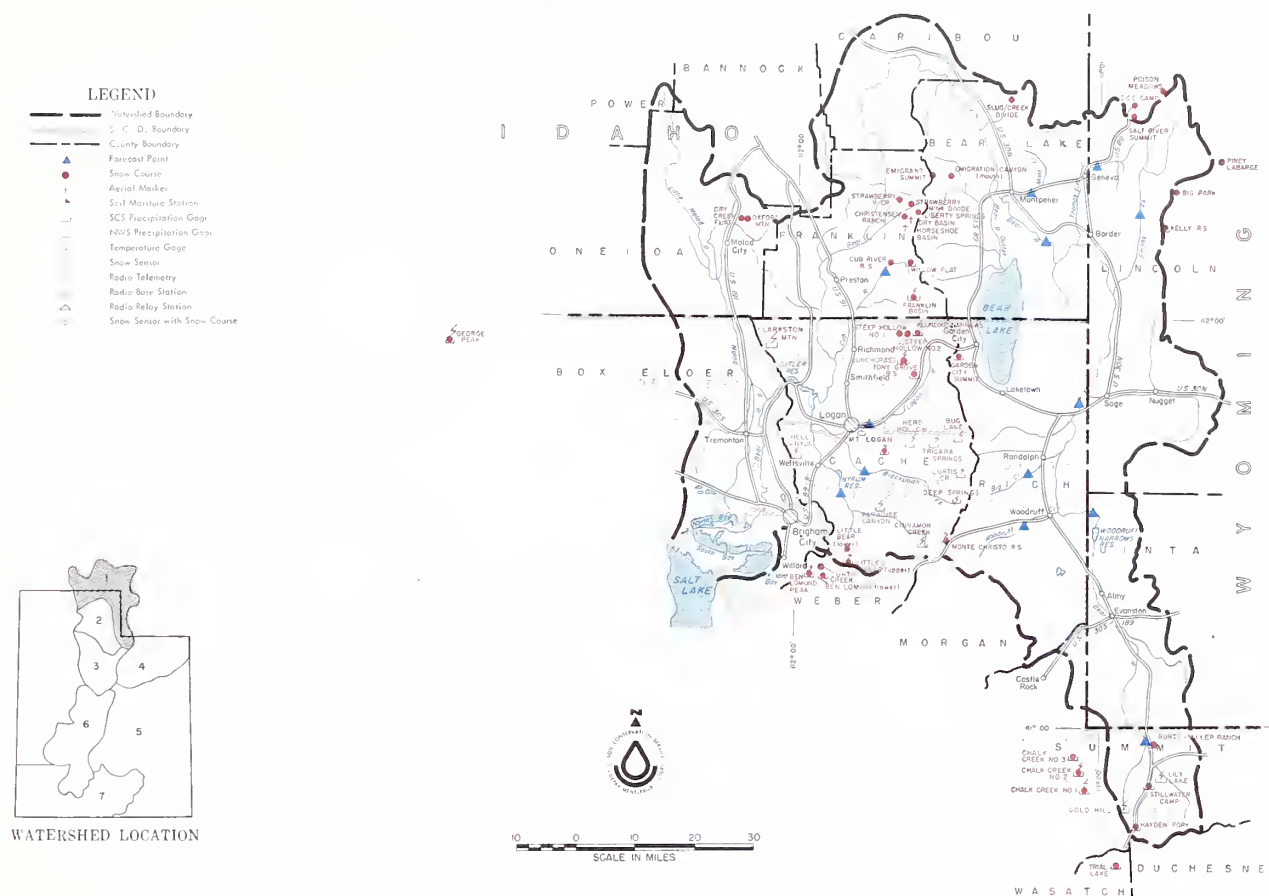
Peak flow forecasts will be issued beginning with the March 1 bulletin.



# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1974

THE WATER SUPPLY OUTLOOK IS AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 110% on the Upper Bear to 123% on the Lower Bear.

PRECIPITATION at Garden City Summit was about twice the January average but only 109% of the October-January total. Salt River Summit shows 107% of January average and 112% for the October-January period.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 92% of average on Blacksmith Fork to 207% of average on Big Creek near Randolph. Bear River forecasts range from 129% at Utah-Wyoming line to 160% at Randolph and 151% at Harer, Idaho. Logan River is forecast 103% of the April-July average for the 1958-72 period.

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<b>BEAR RIVER</b>					
Bear at Harer, Idaho <sup>1</sup>	408	151	Apr-Sept	- -	271
Bear nr Randolph	163	160	Apr-July	133	102
Bear nr Ut-Wyo. State Line	144	129	Apr-July	104	112
Bear nr Woodruff	176	136	Apr-July	149	130
Big Crk nr Randolph, Utah	8.7	207	Apr-July	- -	4.2b
Blacksmith Fork nr Hyrum	44	92	Apr-July	- -	48
Little Bear nr Paradise	40	117	Apr-June	44	34
Logan nr Logan <sup>1</sup>	116	103	Apr-July	90	113
Smith's Fork nr Border, Wyo.	152	131	Apr-Sept	88	116
Thomas Fork nr Ut-Wyo. Border	49	152	Apr-Sept	30	32
Woodruff Crk nr Woodruff, Ut.	23	149	Apr-July	- -	15.4

1 - Observed flow corrected for change in storage and diversions

# SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER BEAR RIVER (Above Harer, Idaho)	4	129	110
LOWER BEAR RIVER (Below Harer, Idaho)	9	142	123
LOGAN RIVER	4	169	114

# RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin of Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<b>BEAR RIVER</b>	Bear Lake	1421.0	1096.6	1115.4	944.9
	Woodruff Narrows	26.5	26.5	23.1	20.5b
<b>LITTLE BEAR</b>	Hyrum	15.3	10.5	10.6	9.9
	Porcupine	11.3	3.5	3.3b	2.9b

b - Average of all past record - less than 15 years

# PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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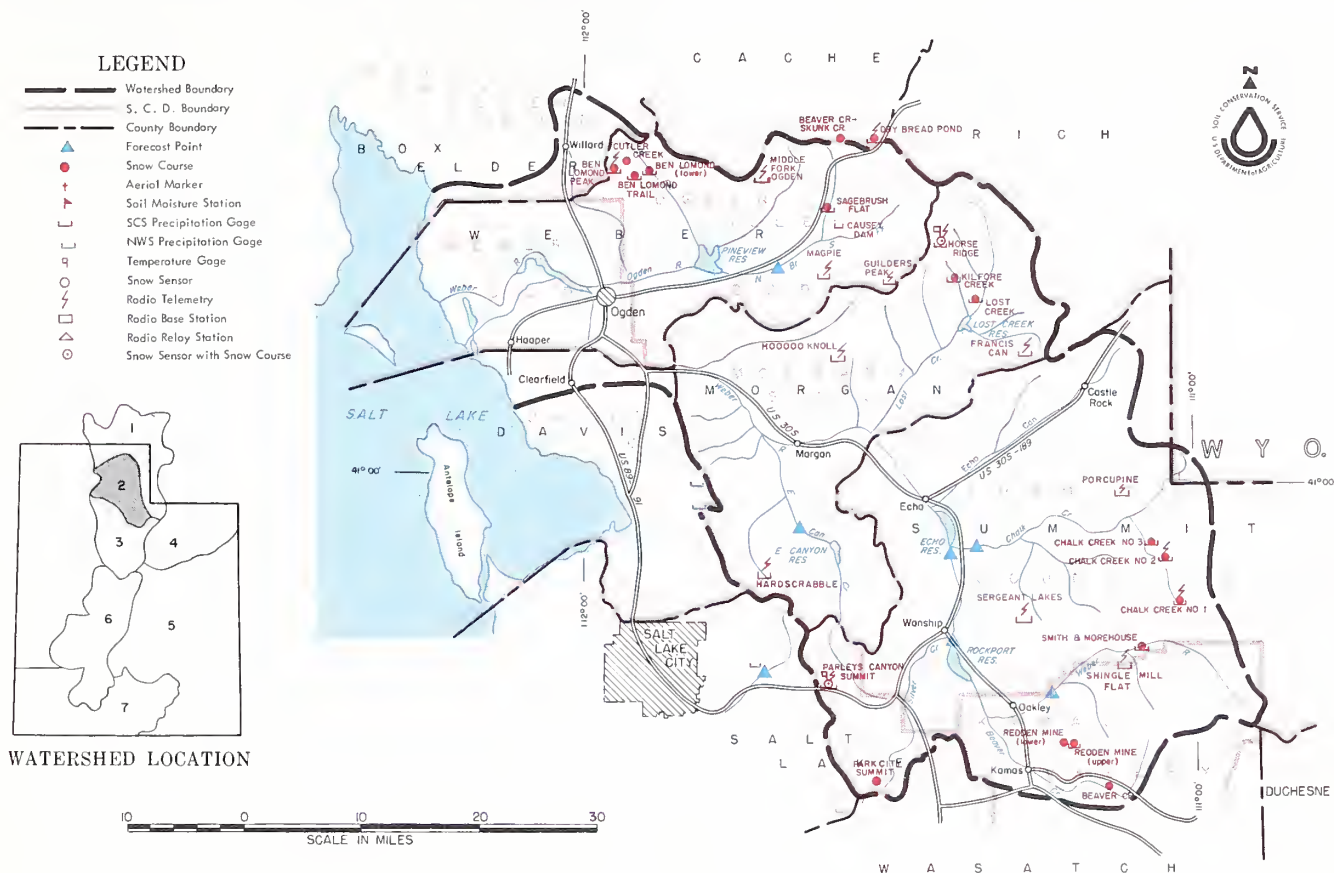
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# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1974

THE WATER SUPPLY OUTLOOK IS VERY GOOD

SNOW COVER is 138% of the February 1 average on the Ogden and 133% on the Weber River.

PRECIPITATION at mountain stations was about double the average for January and was generally better than average for the October-January period.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is very good.

STREAMFLOW FORECASTS range from 120% of the April-June average for the Weber at Oakley to 198% of average for Lost Creek near Croydon. East Canyon is forecast at 136% of average and Pineview Inflow is 150% of its April-June average.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	48	150	Apr-June	- -	32
East Canyon Crk nr Morgan <sup>1</sup>	30	136	Apr-June	34	22
Hardscrabble Crk nr Porterville	20	139	Apr-June	- -	14.4b
Lost Crk nr Croydon, Utah <sup>1</sup>	20	198	Apr-June	16.5	10.1
Pineview Reservoir Inflow <sup>2</sup>	153	150	Apr-June	- -	102
South Fork Ogden nr Huntsville	74	148	Apr-June	- -	50
Rockport Reservoir Inflow <sup>1</sup>	139	126	Apr-June	105	110
Weber nr Coalville <sup>1</sup>	140	126	Apr-June	- -	111
Weber nr Oakley	120	120	Apr-June	- -	100
1 - Observed flow corrected for change in storage and diversions					
2 - Inflow record as computed by U. S. Bureau of Reclamation					
b - Average of all past record - Less than 15 years					

1 - Observed flow corrected for change in storage and diversions  
2 - Inflow record as computed by U. S. Bureau of Reclamation  
b - Average of all past record - Less than 15 years

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
<u>OGDEN RIVER</u>	6	116	138
<u>WEBER RIVER</u>	5	118	133

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>OGDEN</u>	Causey	6.9	1.5	2.2	2.3b
	Pinevi w	110.1	40.3	38.8	40.1
<u>WEBER</u>	East Canyon	48.1	39.0	40.0	18.5
	Echo	73.9	51.6	62.7	39.1
	Lost Creek	20.0	13.8	14.9	12.4b
	Rockport	60.9	55.3	24.5	28.6
	Willard Bay	193.3	159.4	156.3	110.3b

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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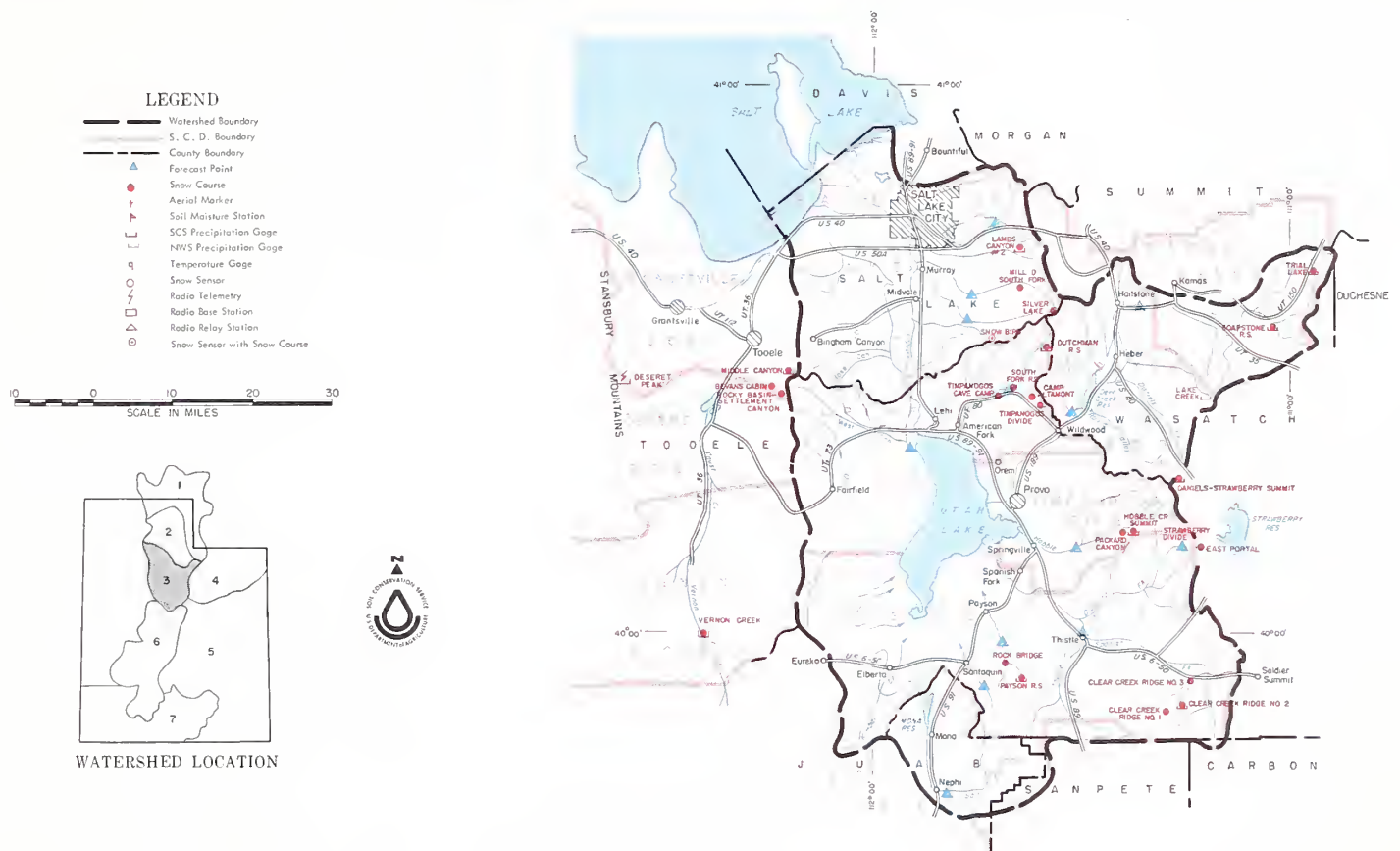
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# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1974

### THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER on Utah Lake Watersheds is 126% of the February 1 average and ranges from 114% on Provo River to 154% on Spanish Fork. Jordan River tributaries above Salt Lake are 138% of average and Middle Canyon above Tooele is 154% of the February 1 average.

PRECIPITATION at mountain stations during January ranged from 85% of average on the American Fork to 255% on Payson Creek.

SOIL MOISTURE is near average.

RESERVOIR STORAGE ranges from 127% of the February 1 average for Deer Creek to 185% for Strawberry Reservoir. Utah Lake is 150% of average.

STREAMFLOW FORECASTS range from 109% of the April-July average on Little Cottonwood to 150% of average for Hobbie Creek. Utah Lake Inflow is expected to be 131% of average and Strawberry Inflow is 144% of its April-July average. Provo River is forecast 132% at Hailstone and 138% at Deer Creek Reservoir.

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER &amp; UTAH LAKE</u>					
American Fork nr American Fork	34	117	Apr-July	- -	29
Hobble Crk nr Springville	24	150	Apr-July	- -	16
Provo nr Hailstone <sup>1</sup>	135	132	Apr-July	- -	102
Provo below Deer Crk Dam <sup>1</sup>	154	138	Apr-July	- -	111
Spanish Fork at Thistle	44	138	Apr-July	- -	32
Strawberry Reservoir Inflow <sup>1</sup>	65	144	Apr-July	- -	45
Utah Lake Inflow	272	131	Apr-July	- -	208
Payson Crk nr Payson	8.6	136	Apr-July	- -	6.3b
<u>JORDAN RIVER &amp; SALT LAKE</u>					
Big Cottonwood nr Salt Lake	43	119	Apr-July	- -	36
Farmington Crk nr Farmington	9.1	117	Apr-July	- -	7.8b
Little Cottonwood Crk nr SLC	38	109	Apr-July	- -	35
Parley's Crk nr SLC	16.0	137	Apr-July	- -	11.7
1 - Observed flow corrected for change in storage and diversions					
b - Average of all past record - Less than 15 years					

# SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
<u>PROVO RIVER &amp; UTAH LAKE</u>	10	94	126
<u>JORDAN RIVER &amp; SALT LAKE</u>	4	112	138
<u>TOOELE VALLEY</u>	1	74	154

# RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>PROVO</u>	Deer Creek	149.7	120.1	103.7	94.7
<u>SPANISH FORK</u>	Strawberry	270.0	210.2	178.4	113.6
<u>UTAH LAKE</u>	Utah Lake	883.9	848.9	741.6	563.0

# PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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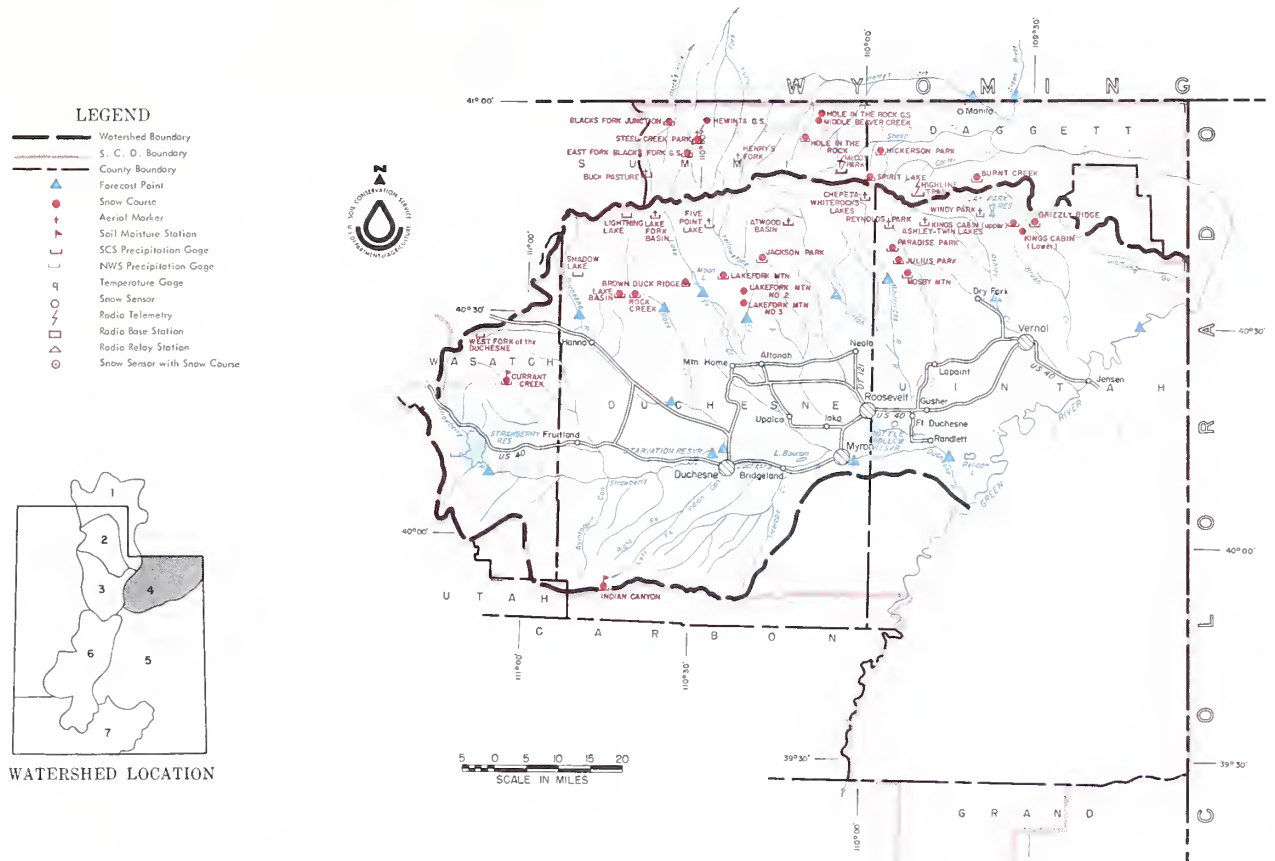
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# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1974

### THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER varies from 73% of average on the Uintah-Whiterocks Rivers to 129% on the Upper Strawberry River. Lakefork and Yellowstone Creeks are 108% of the February 1 average.

PRECIPITATION at mountain stations for the October 1-January 31 period has ranged from 62% of average at Paradise Park to 121% at Daniels-Strawberry Summit.

SOIL MOISTURE is below average in Uintah Basin and near average on the Upper Strawberry River.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 86% of the April-July average on Whiterock; to 134% on the Strawberry River. Ashley Creek is forecast 90% of average and Lakefork Creek is 106% of average. Flaming Gorge Inflow is expected to be 124% of the April-July average.

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST Thousand Acres Feet	Percent of Average		THOUSAND ACRE FEET	
				Last Year	Average †
<b>DUCHESNE RIVER</b>					
Duchesne nr Tabiona <sup>1</sup>	116	112	Apr-July	- -	104
Duchesne at Duchesne <sup>1</sup>	205	111	Apr-July	- -	185
Duchesne at Myton <sup>1</sup>	260	127	Apr-July	- -	205
Duchesne at Randlett <sup>1</sup>	278	126	Apr-July	- -	220
Strawberry at Duchesne	75	134	Apr-July	- -	56
Lakefork below Moon Lake <sup>1</sup>	73	106	Apr-July	- -	69
Rock Crk nr Mtn. Home	103	110	Apr-July	- -	94
Uinta nr Neola	78	89	Apr-July	- -	88
Whiterocks nr Whiterock	50	86	Apr-July	- -	58
Yellowstone nr Altonah	64	98	Apr-July	- -	65
<b>FLAMING GORGE TO DUCHESNE RIVER</b>					
Ashley Crk nr Vernal	45	90	Apr-July	- -	50
Henry's Fork at Linwood	50	111	Apr-Sept	- -	45
Flaming Gorge Inflow	1459	124	Apr-July	- -	1174
1 - Observed flow corrected for change in storage and diversions					
b - Average for all past record - Less than 15 years					

# SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
<b>DUCHESNE RIVER - TOTAL</b>	9	100	107
<b>LAKEFORK-YELLOWSTONE CREEKS</b>	3	114	108
<b>STRAWBERRY RIVER</b>	3	118	129
<b>UINTA - WHITEROCKS RIVERS</b>	2	64	73

# RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<b>ASHLEY CREEK</b>	Steinaker	33.3	25.8	25.8	19.4b
<b>GREEN RIVER</b>	Flaming Gorge	3749.0	2897.6	2962.0	1641.0
<b>LAKEFORK</b>	Moon Lake	35.8	22.6	16.2	16.3
<b>STRAWBERRY</b>	Starvation	165.3	146.4	130.0	- -
<b>UINTAH</b>	Bottle Hollow	11.3	10.8	11.0	- -

# PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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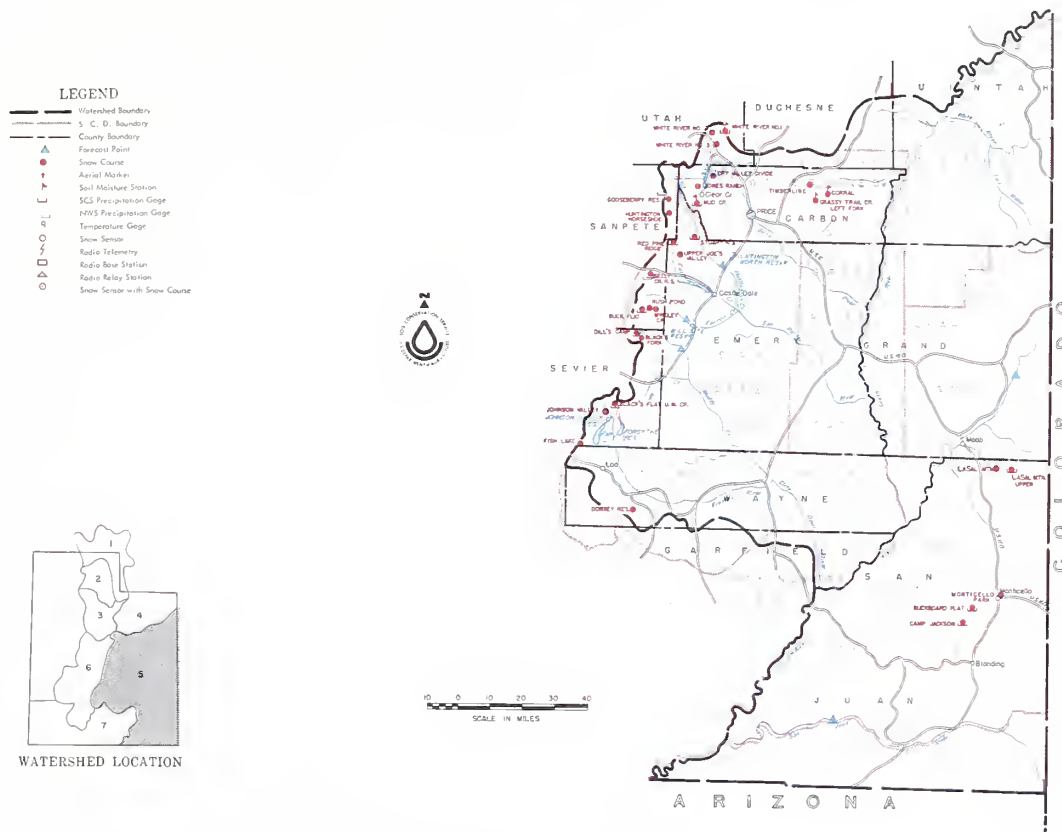
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# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



FEBRUARY 1, 1974

THE WATER SUPPLY OUTLOOK IS VERY GOOD

SNOW COVER ranges from 144% of the February 1 average on Price River to 160% on San Rafael Watersheds.

PRECIPITATION at mountain stations was better than twice the January average and 15 to 40% above average since October 1.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 129% on Muddy Creek to 162% on Price River. Seven Mile Creek is forecast 125% of average. Colorado at Cisco is forecast 132% and Green River 127% of the April-July average.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	15.6	156	Apr-July	46	10.0
Price nr Heiner <sup>1</sup>	104	162	Apr-July	- -	64b
Scofield Reservoir Inflow <sup>1</sup>	54	158	Apr-July	- -	34
SAN RAFAEL RIVER					
Cottonwood Crk nr Orangeville	71	154	Apr-July	60	46b
Ferron Crk nr Ferron	51	146	Apr-July		35
Huntington Crk nr Huntington	71	158	Apr-July		45
MUDDY RIVER					
Muddy Crk nr Emery	22	129	Apr-July		17.0
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3755	132	Apr-July	4947	2835
Green at Green River, Utah	3601	127	Apr-July	3514	2839
Navajo Reservoir Inflow	800	127	Apr-July		597
San Juan nr Bluff, Utah	1099	129	Apr-July	2065	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	8.0	125	Apr-July		6.4b

1 - Observed flow corrected for change in storage and diversions

SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	4	114	144
SAN RAFAEL RIVER	5	130	160

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	43.5	22.3	28.8
SAN RAFAEL	Huntington North	3.9	1.8	3.0	2.0b
	Joe's Valley	54.6	37.8	35.4	30.8b
	Mill Site	16.7	4.5a	3.7	- -
SAN JUAN	Navajo	1696.0	1033.7	945.8	- -

a - Partly Estimated

b - Average of all Past Record - Less than 15 years

PEAK FLOWS

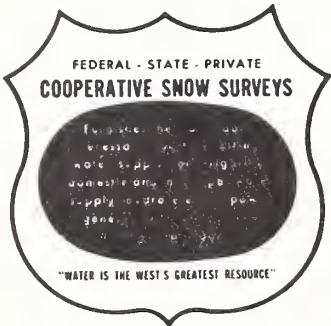
FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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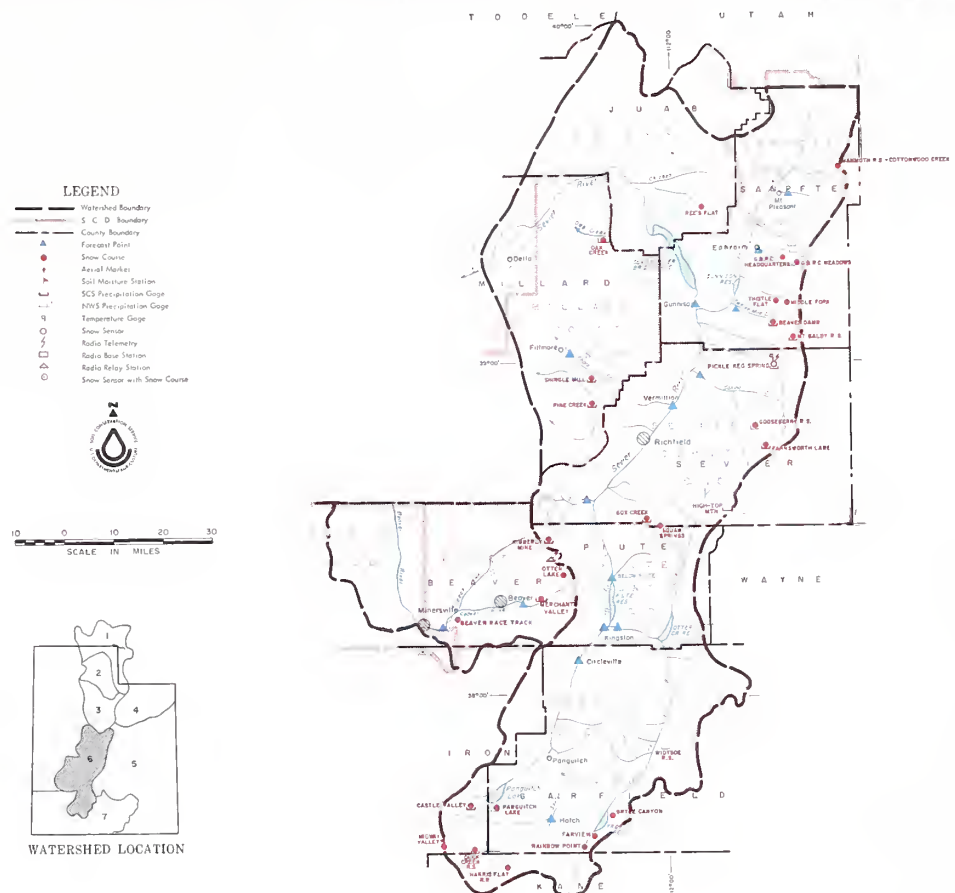


"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1974

THE WATER SUPPLY OUTLOOK IS VERY GOOD

SNOW COVER varies from 114% of the 1958-72 average on the Upper Sevier to 159% on the Lower Sevier and Beaver River.

PRECIPITATION at mountain stations was 2 to 3 times the average for January but ranged from 3/4 to 1 1/2 the average for the October-January period on the Sevier.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is well above average. Sevier River storage ranges from 151 to 233% of average and Minersville Reservoir is 170% of its February 1 average.

STREAMFLOW FORECASTS range from near average on Chalk Creek to 173% of the April-July average for Ephraim Creek. Sevier River forecasts range from 112% at Hatch to 144% on the Inflow Vermillion to Gunnison. Beaver River is forecast at 135% and Minersville Inflow 121% of average.

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>†</sup>
<u>SEVIER RIVER</u>					
Chalk Crk nr Fillmore	15.5	100	Apr-July	- -	15.5b
Clear Crk nr Sevier-Above Div.	20	133	Apr-July	- -	15.0
East Fork Sevier nr Kingston <sup>1</sup>	20	139	Apr-July	56	14.4
Antimony Crk nr Antimony Inflow	8.4	115	Apr-July	- -	7.3
Kingston to Vermillion Dam	55	110	Apr-June	- -	50
Vermillion Dam to Gunnison	56	144	Mar-June	- -	39
Salina Crk at Salina	11.0	136	Apr-June	- -	8.1b
Sevier nr Circleville	36	128	Apr-July	- -	28
Sevier nr Gunnison	52	133	Apr-July	- -	39
Sevier at Hatch	46	112	Apr-July	78	41
Sevier nr Kingston	25	119	Apr-July	- -	21
Sevier below Piute Dam <sup>1</sup>	43	130	Apr-July	- -	33
<u>SAN PITCH RIVER</u>					
Ephraim Crk nr Ephraim	24	173	Apr-July	- -	13.9b
Pleasant Crk nr Mt. Pleasant	12.0	153	Apr-July	- -	7.8
<u>BEAVER RIVER</u>					
Beaver nr Beaver	27	135	Apr-July	38	20
Minersville Reservoir Inflow <sup>1</sup>	7.0	121	Apr-June	- -	5.8

# RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<u>SEVIER RIVER</u>	Gunnison	18.2	16.4	15.0a	9.8
	Otter Creek	52.5	46.8	24.9	25.4
	Piute	71.8	56.2	38.6	37.2
	Sevier Bridge	236.0	193.8	111.9	83.2
<u>BEAVER RIVER</u>	Minersville (Rky Fd)	23.3	19.2	8.8	11.3

a - Partly Estimated

1 - Observed flow corrected for change in storage and diversions

# SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	7	66	114
LOWER SEVIER RIVER	5	106	159
BEAVER RIVER	3	105	159

# PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
<b>SEVIER RIVER</b>			
Below Vermillion Dam	60	55	April-Sept
Circle Valley	80	65	April-Sept
Panguitch Valley	85	82	April-Sept
Sevier Valley	55	38	April-Sept
Inflow to Sevier Bridge Reservoir October 1 to March 31 is expected to be about 100,000 acre feet.			
Below Vermillion - Flow above 360 second feet should total about 2500-3500 acre feet.			

# PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)		
	Forecast Range	Average †	
TO BEGIN MARCH 1, 1974			
FORECAST DATE of LOW FLOW VALUES			
FORECAST POINT	Low Flow Value Second Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Crk nr Sevier (above Div.)	5	August 3	July 28
Salina Crk at Salina	25	June 12	June 10
Sevier at Circleville (Circle Valley)	90	June 23	June 24
Sevier at Hatch (upper)	100	July 9	July 10

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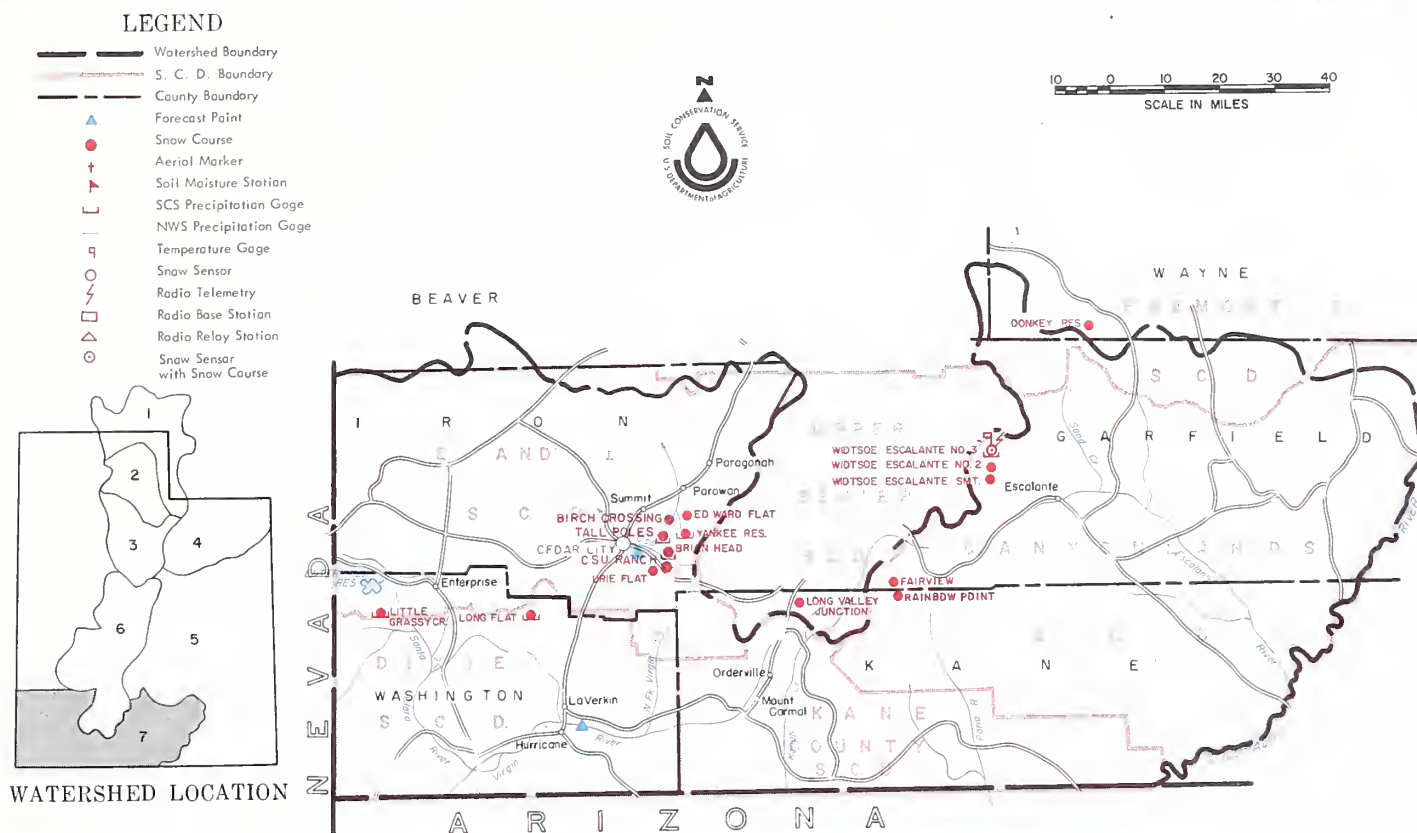
*"The Conservation of Water begins with the Snow Survey"*



# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 116% of the February 1 average on Coal Creek to 136% on the Virgin River.

PRECIPITATION at mountain stations ranged from 73% of the January average on Parowan Creek to 195% for Webster Flat. The October-January total at these stations has been 86% and 107% of average respectively.

RESERVOIR STORAGE is 17,419,000 acre-feet in Lake Powell. Last February 1 it held 12,253,000 acre-feet.

STREAMFLOW FORECASTS vary from 110% of the April-June average on the Virgin to 130% of the April-July average for the Inflow to Lake Powell. Coal Creek is forecast 114% of the April-July average for the 1958-72 period.



# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BASIN, STREAM and/or FORECAST POINT					
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	53	110	Apr-June	- -	48b
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	18.3	114	Apr-July	95	16.1
<u>UPPER COLORADO</u>					
Lake Powell Inflow	8929	130	Apr-July	- -	6881

# SUMMARY of SNOW MEASUREMENTS

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
<u>COAL CREEK</u>	3	78	116
<u>VIRGIN RIVER</u>	2	72	136

# RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>COLORADO</u>	Lake Powell	25002.0	17419.0	12253.0	8401b
	Blue Mesa	829.5	472.4	- -	- -

# PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
TO BEGIN MARCH 1, 1974		

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## SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Big Park	1/31	54	15.1	10.3	13.3a						
CCC Camp	1/30	36	8.4	7.7	8.2						
Gold Hill*	2/6	Data Not	Available from	USU							
Kelly Ranger Station	1/31	52	14.8	10.7	11.7a						
Lily Lake*	2/6	Data Not	Available from	USU							
Piney-LaBarge #2	1/27	58	15.7	13.1	15.8a						
Salt River Summit	1/30	48	13.0	8.1	- -	1/30	4.05	3.77	12.10	10.81	112
LOWER BEAR RIVER (Below Harer, Idaho)											
Christensen Ranch	1/30	36	8.7	7.5	5.9						
Cinnamon Creek*	2/6	Data Not	Available from	USU							
Clarkston Mountain*	2/6	Data Not	Available from	USU							
Cub River Ranger Station	1/29	39	9.8	6.6	5.8						
Curtis Creek*	2/6	Data Not	Available from	USU							
Dry Basin	1/30	80	24.0	14.1	- -						
Dry Creek Flat	1/28	36	9.0	9.8	5.3						
Emigrant Summit	1/31	71	20.9	13.8	16.6a						
Garden City Summit	1/28	55	14.4	8.4	11.6	1/29	7.85	3.86	13.88	12.68	109
Emigration Canyon	1/31	32	8.2	5.8	7.8a						
George Peak*	2/6	Data Not	Available from	USU							
Herd Hollow*	2/6	Data Not	Available from	USU							
Horseshoe Basin	1/30	65	20.8	14.4	- -						
Klondike Narrows*	1/28	56	15.0	9.6	13.4	2/6	Data Not	Available from	USU		
Little Bear (lower)	1/29	37	10.3	- -	- -						
Little Bear (upper)	1/29	42	11.6	- -	- -						
Monte Cristo Ranger Station	1/27	69	19.3	15.1	16.7b	1/27	10.24	- -	21.22	- -	- -
Oxford Mountain	1/28	34	7.6	8.0	6.5a						
Steep Hollow #1	1/28	90	27.0	15.8	24.9b						
Steep Hollow #2	1/28	73	21.2	12.2	18.2b						
Strawberry Creek	1/31	42	10.1	9.1	7.2						
Strawberry Mink Divide	1/30	61	18.4	14.6	14.2						
Slug Creek Divide	1/30	40	10.6	11.0	11.0a						
Tony Grove Lake*	2/6	Data Not	Available from	USU							
Tony Grove Ranger Station	1/29	43	10.5	5.8	- -						
Willow Flat	1/29	53	14.2	10.4	10.0						
Franklin Basin*	2/6	Data Not	Available from	USU							
OGDEN RIVER											
Beaver Crk-Skunk Crk	1/27	40	10.3	9.9	8.0						
Ben Lomond (lower)	1/26	56	15.8	12.0	10.0	1/26	- -	5.45	12.35	16.81	73
Ben Lomond Peak*	2/6	Data Not	Available from	USU							
Ben Lomond Trail	1/26	61	17.8	14.7	11.6b	1/26	Gage Molested				
Bug Lake*	2/6	Data Not	Available from	USU							
Causey Dam						1/27	6.72	3.05	12.41	9.07	137
Cutler Creek	1/26	75	22.1	21.8	18.7b						
Deer Springs*	2/6	Data Not	Available from	USU							
Dry Bread Pond	1/27	52	14.2	12.7	11.3	1/27	7.01	- -	12.66	- -	- -
Francis Canyon*	2/6	Data Not	Available from	USU							
Guilder's Peak*	2/6	Data Not	Available from	USU							
Magpie*	2/6	Data Not	Available from	USU							
Middle Fork Ogden*	2/6	Data Not	Available from	USU							
Sagebrush Flat	1/27	29	7.4	4.6	3.7	1/27	6.85	- -	10.41	- -	- -
WEBER RIVER											
Beaver Creek Ranger Station	1/31	29	7.8	6.2	5.7						
Chalk Creek #1*	1/29	68	18.4	15.6	- -	2/6	Data Not	Available from	USU		
Chalk Creek #2*	1/29	46	11.0	10.7	8.8	2/6	Data Not	Available from	USU		
Chalk Creek #3	1/29	31	7.0	6.9	5.1	1/29	3.95	- -	10.84	- -	- -
Farmington Canyon (upper)**	2/6	- -	27.9	20.2	17.5b						
Hardscrabble*	2/6	Data Not	Available from	USU							
Horse Ridge**	2/6	- -	22.7	12.0	- -						
Parley's Canyon Summit	1/30	57	16.6	12.3	11.7	1/30	7.86	3.86	17.76	14.08	126
Park City Summit	2/4	76	24.5	19.8a	- -						
Porcupine*	2/6	Data Not	Available from	USU							
Sargeant Lakes*	2/6	Data Not	Available from	USU							
Shingle Mill Flat*	2/6	Data Not	Available from	USU							
Smith & Morehouse	1/30	41	10.1	8.2	8.1	1/30	6.47	3.26	14.05	11.62	121

# SNOW

SNOW	THIS YEAR				PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
PROVO RIVER & UTAH LAKE												
Beaver Creek Divide	1/31	43	11.5	- -	- -							
Camp Altamont	1/30	35	9.4	12.4	9.9							
Clear Creek Ridge #1	1/31	50	15.6	14.0	- -							
Clear Creek Ridge #2	1/31	42	12.2	11.2	8.3	1/31	Gage Molested					
Clear Creek Ridge #3	1/31	30	8.1	8.1	4.9							
Dutchman Ranger Station	1/30	49	14.6	12.7	- -	1/30	2.62a	- -	6.22a	- -	- -	
Hobble Creek Summit	1/25	40	12.4	10.9	- -	1/25	- -	- -	13.35	- -	- -	
Packard Canyon	1/25	35	9.9	9.2	- -							
Payson Ranger Station	1/29	50	16.2	18.0	10.5	1/29	7.10	2.78	15.50	10.99	141	
Rock Bridge	1/29	42	11.8	14.2	7.3							
Soapstone	1/31	41	10.7	7.5	8.3	1/31	5.15	3.13	13.23	10.19	130	
South Fork Ranger Station	1/30	24	6.8	7.6	4.2							
Timpanogos Cave Camp	1/30	12	2.6	5.1	1.7							
Timpanogos Divide	1/30	47	13.6	17.3	15.7	1/31	4.00	4.73	13.90	16.72	83	
Trial Lake	1/31	67	18.8	16.0	16.6	1/31	4.63	4.85	18.11	14.92	121	
JORDAN RIVER & SALT LAKE												
Deseret Peak*	2/6	Data Not Available from USU										
Lamb's Canyon	1/30	49	14.3	9.7	9.7							
Lamb's Canyon #2	1/30	51	14.4	10.7	- -	1/30	5.13	- -	12.75	- -	- -	
Middle Canyon - Tooele	1/30	40	12.3	16.5	8.0							
Mill Creek	2/1	56	17.8	- -	- -							
Mill D South Fork	1/31	56	17.4	14.2	12.5							
Mt. Dell Dam						1/31	1.88	2.16	10.80	8.72	124	
Silver Lake (Brighton)	1/31	60	19.0	16.1	15.4							
Snowbird (Gad Valley)		Data Not Available		18.0a	- -							
Vernon Creek	1/26	32	8.3	11.3	- -	1/26	- -	- -	8.19	- -	- -	
UPPER SEVIER RIVER (South of Richfield, Utah)												
Bryce Canyon	1/31	17	3.9	7.4	2.8							
Duck Creek Ranger Station	1/31	33	9.2	11.8	8.0	1/31	4.95	2.68	8.25	11.05	75	
Farview	1/30	21	5.2	10.6	- -							
Harris Flat Ranger Station	1/31	22	6.5	9.2	5.0							
Kimberly Mine	1/28	51	12.9	15.0	- -	1/28	7.54	2.88b	12.84	10.34b	124	
Midway Valley	1/31	43	13.2	18.2	12.9	1/31	5.95	- -	10.65	- -	- -	
Rainbow Point	1/30	20	5.1	8.6	- -							
Widtsøe Escalante #2	1/30	25	5.5	10.6	5.4							
Widtsøe Escalante #3	1/30	30	6.8	11.8	6.6b	1/30	4.03	1.28	7.37	7.84	94	
Widtsøe Escalante Summit	1/30	22	5.7	7.6	4.0							
Widtsøe Ranger Station						1/30	1.62	- -	2.61	- -		
LOWER SEVIER RIVER (Including San Pitch)												
Farnsworth Lake	1/29	61	17.2	17.1	10.5	1/29	6.90	2.61	15.45	10.83	143	
G.B.R.C. Headquarters	1/31	49	14.4	15.0	8.8	1/31	6.30	- -	15.75	- -	- -	
G.B.R.C. Majors						1/31	3.34	- -	8.30	- -	- -	
G.B.R.C. Meadows	1/31	64	20.9	19.4	13.8	1/31	- -	- -	18.13	- -	- -	
G.B.R.C. Oaks						1/31	4.15	- -	10.30	- -	- -	
Gooseberry Ranger Station	1/29	51	13.4	11.8	6.6	1/29	5.45	- -	10.50	- -	- -	
Mammoth R. S.-Ctnwood Crk	1/30	56	17.6	15.4	12.7b	1/30	7.10	3.50b	14.00	11.59b	121	
Shingle Mill	1/31	35	9.3	13.2	- -	1/31	4.71	1.83b	13.91	9.02b	154	
BEAVER RIVER												
Beaver Canyon Power House						1/31	4.09	1.04	8.18	5.16	158	
Beaver Race Track	1/29	0	0.0	3.3	- -							
Big Flat	1/29	53	12.9	14.4	9.8	1/29	8.83	- -	11.92	- -	- -	
Merchant Valley	1/29	42	10.4	7.6	4.7	1/29	7.47	- -	10.73	- -	- -	
Otter Lake	1/29	48	12.2	11.7	7.8							
PAROWAN CREEK												
Birch Crossing	1/30	28	7.1	6.5	- -							
Brian Head	1/30	50	14.7	16.1	- -							
Tall Poles	1/30	39	10.6	11.7	- -	1/30	4.20	5.76a	10.50	12.22a	86	
COAL CREEK												
SUSC Ranch	1/31	27	6.9	8.3	5.1a							
Urie Flat		Discontinued										

## SNOW

SNOW	THIS YEAR					PAST RECORD		PRECIPITATION (Inches)					
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE			
					NAME	Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
COLORADO RIVER BASIN													
UPPER GREEN RIVER - UTAH													
Burnt Creek	1/30	18	3.9	5.7	- -	1/30	2.00	1.53b	6.85	6.47b	106		
Grizzly Ridge	1/30	24	5.7	8.4	- -	1/30	2.80	2.35b	7.40	9.31b	79		
Highline Trail*													
McKoy Park*													
Steel Creek Park*													
DUCHESNE RIVER													
Daniels-Strawberry Summit	1/30	39	11.6	10.4	9.6	1/30	6.14	3.08	13.60	11.21	121		
East Portal	1/31	36	9.6	7.0	6.8	1/31	3.12	3.56	13.16	12.48	105		
Indian Canyon	1/28	27	6.8	8.7	7.8	1/28	4.21	2.36b	7.26	9.07b	80		
Julius Park	1/29	Course Disturbed	9.3	8.4		1/29	2.55	2.28b	6.50	8.84b	74		
Lakefork Mountain	1/30	32	8.6	6.7	6.8	1/30	4.62	- -	9.59	- -	- -		
Lakefork Mountain #2	1/30	22	4.7	4.9	5.0								
Lakefork Mountain #3	1/30	20	4.1	3.6	4.3								
Mosby Mountain	1/29	21	4.5	6.6	6.6	1/29	2.38	2.03a	6.23	7.18a	87		
Paradise Park	1/29	25	6.1	9.9	8.0	1/29	2.65	2.42b	6.70	10.72b	62		
Strawberry Divide	1/31	52	14.8	13.1	11.4								
PRICE RIVER													
Dry Valley Divide	1/31	32	8.7	8.1	6.5								
Gooseberry Reservoir	1/30	51	17.6	15.6	10.9	1/30	8.20	3.07	15.68	11.06	142		
Jones Ranch	1/31	28	6.6	5.1	4.3								
Mud Creek #2	1/31	39	10.2	9.1	8.2	1/31	4.78	2.30	10.16	8.86	115		
SAN RAFAEL RIVER													
Buck Flat	1/30	51	14.8	11.0	9.2b	1/30	6.55	- -	14.40	- -	- -		
Orange Olson	2/1	21	4.5	3.0	- -	2/1	- -	- -	5.25	- -	- -		
Red Pine Ridge	2/1	48	14.4	10.8	9.8b	2/1	- -	- -	15.75	- -	- -		
Rush Pond	1/30	45	11.8	9.7	8.2b								
Upper Joe's Valley	2/1	38	9.6	6.6	5.7b								
Wrigley Creek	1/30	34	8.1	7.4	6.6								
SAN JUAN RIVER													
Monticello City Park	1/31	16	3.3	- -	- -								
VIRGIN RIVER													
Long Valley Junction	1/31	15	4.6	8.4	2.6								
Webster Flat	1/31	40	12.0	14.6	9.6	1/31	6.35	3.25	12.55	11.75	107		
a - Partly Estimated b - Average of all past record - less than 15 years * - USU-SCS Cooperative Radio Reading ** - SCS Radio Reading + - 1958-72 15 year average period													





# Agencies Cooperating in Utah Snow Surveys

## U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE AGENCIES

Utah State University  
Utah Fish and Game Department  
Utah State Department of Natural  
Resources, Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti  
Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association

## PRIVATE AGENCIES

Kaiser Steel Corporation

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domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*